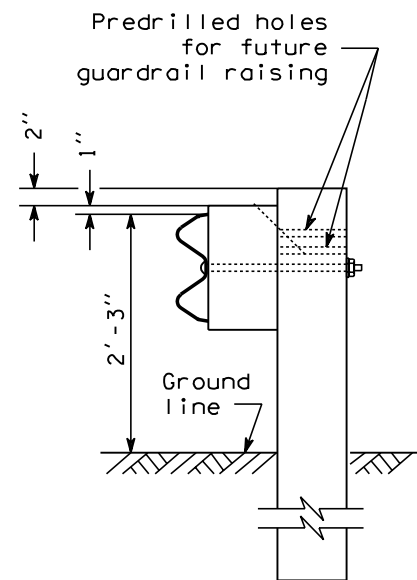
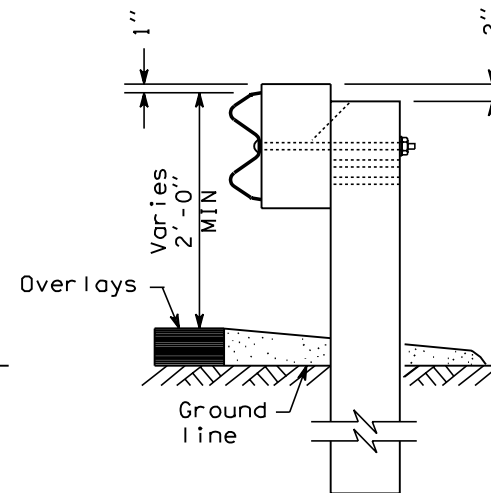


TYPE 1

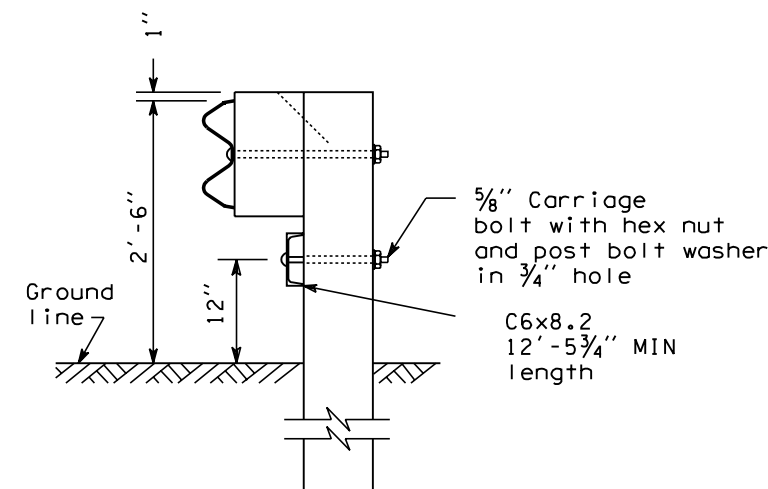


INITIAL INSTALLATION

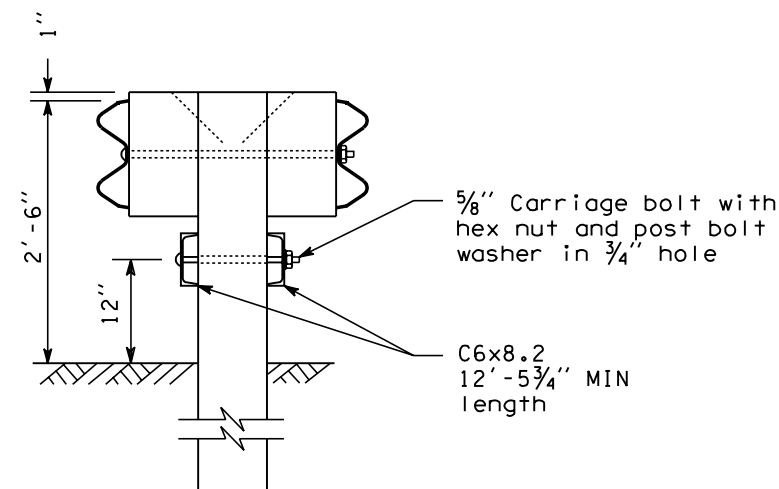


RAIL ELEMENT RAISED

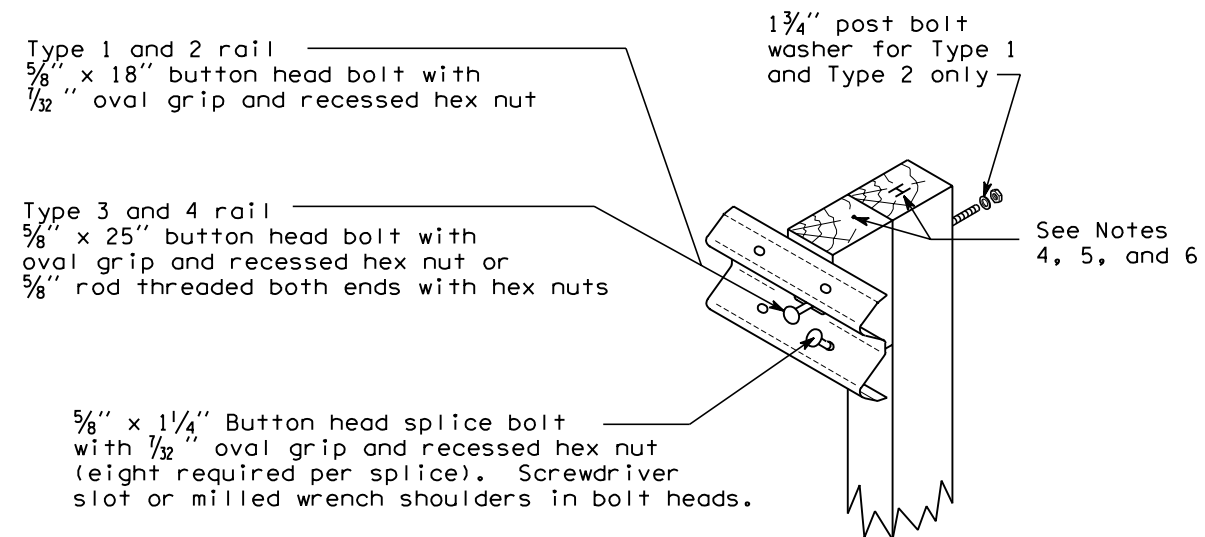
TYPE 1 ALTERNATE



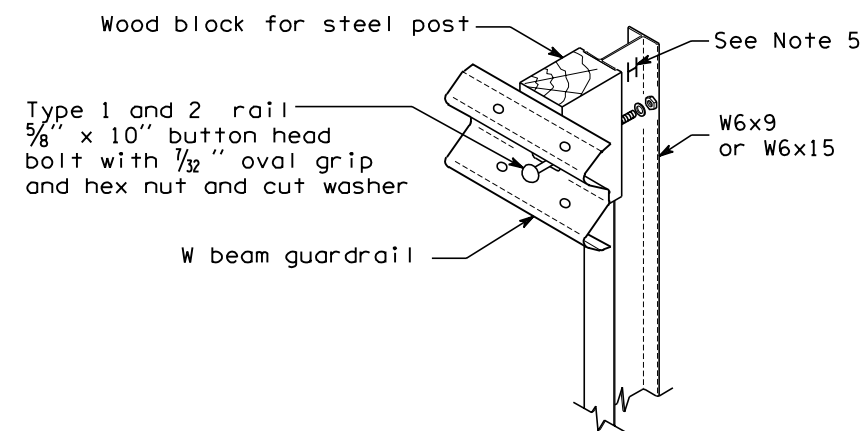
TYPE 2



TYPE 3

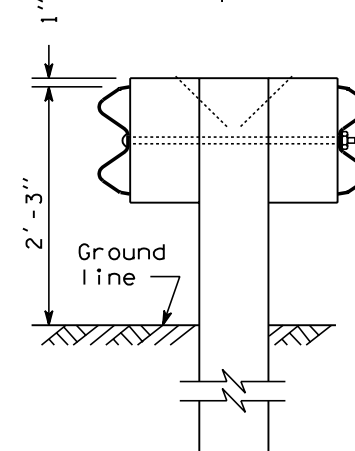


WOOD POST ASSEMBLY DETAIL



STEEL POST ASSEMBLY DETAIL

(All mounting hardware same as for wood post assembly, except as noted)



TYPE 4



BEAM GUARDRAIL
(W BEAM)
STANDARD PLAN C-1

SHEET 1 OF 2 SHEETS

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

7/98	ADD STEEL POST ASSEMBLY DETAIL	RBA
DATE	REVISION	BY

APPROVED FOR PUBLICATION

Clifford E. Mansfield

DEPUTY STATE DESIGN ENGINEER



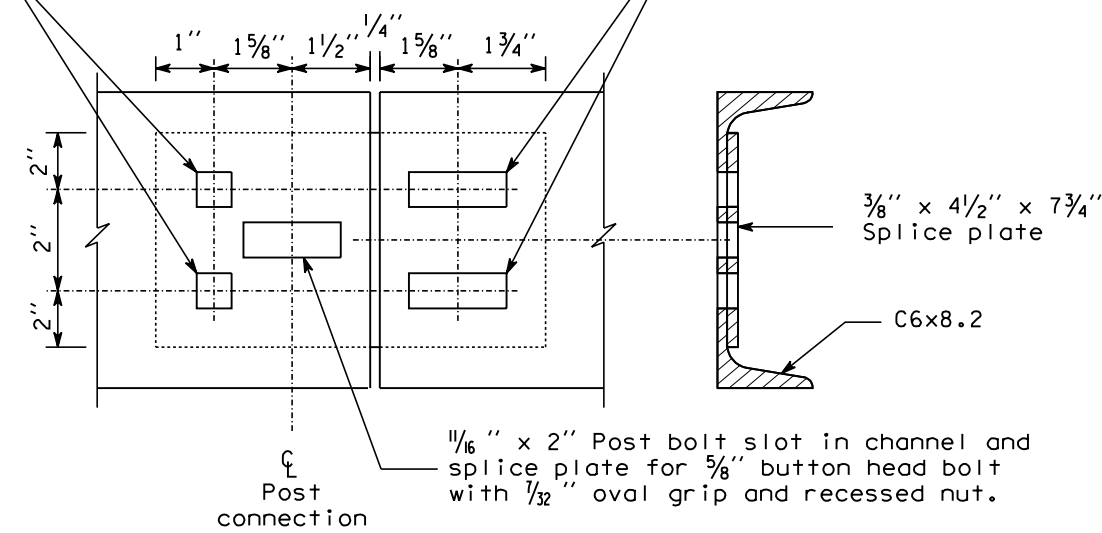
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
OLYMPIA, WASHINGTON

7/31/98

DATE

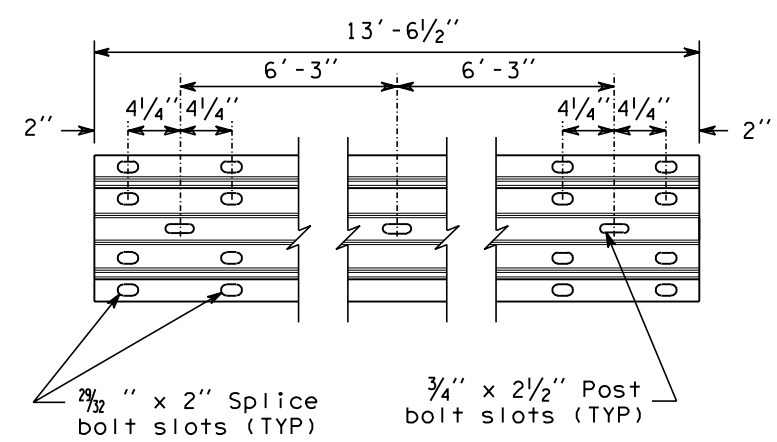
$\frac{1}{16}$ " x 2" Splice slot in channel and splice plate for $\frac{5}{8}$ " carriage bolt, hex nut and washer

$\frac{1}{16}$ " Splice holes for $\frac{5}{8}$ " carriage bolts

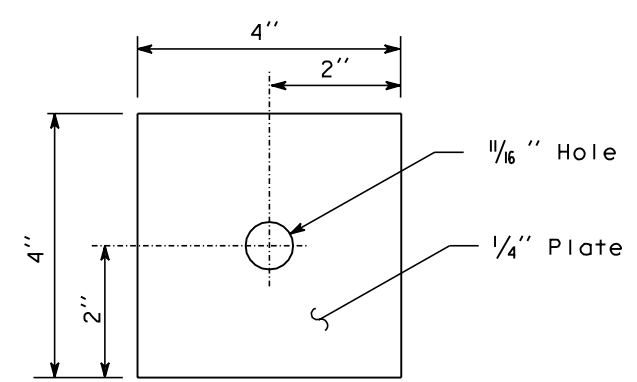


Post connection

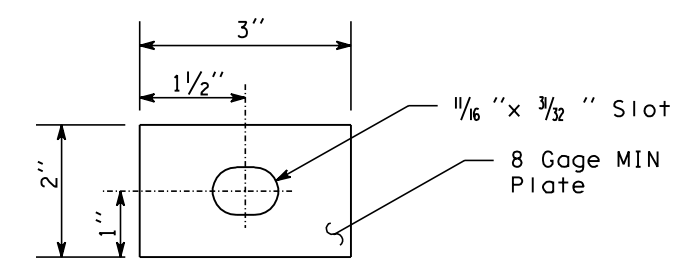
CHANNEL RAIL SPLICE



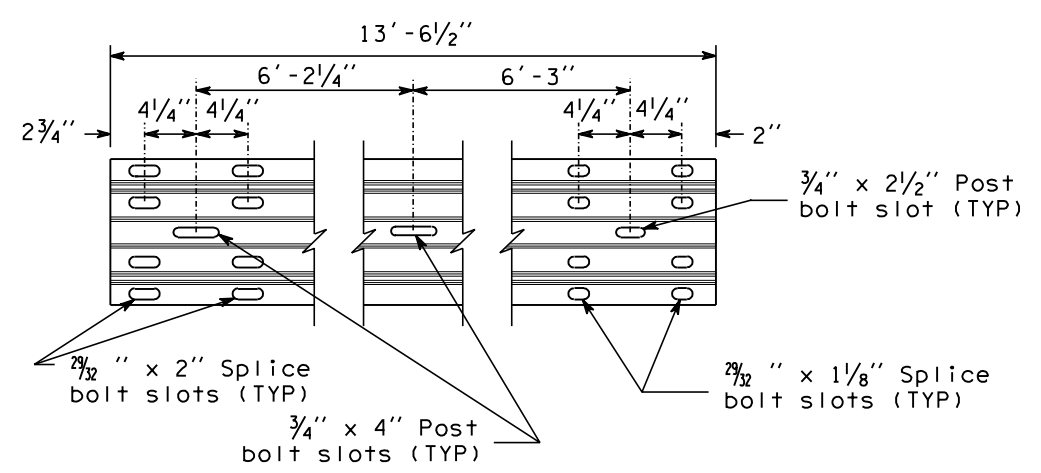
RAIL ELEMENT



SNOW LOAD POST WASHER (See Note 1)



SNOW LOAD RAIL WASHER



EXPANSION SECTION DETAIL

NOTES

1. When required by the contract, a Snow Load Post Washer shall be used on the backside of the post (in lieu of the 1 $\frac{3}{4}$ " post bolt washer) and a Snow Load Rail Washer shall be placed on the face side of Type 1 and Type 2 Beam Guardrail. Snow load rail washers are not to be installed on terminals.
2. Rail washers, also called "snow load rail washers" are not required on new installations, except as called for in Note 2. Rail washers need not be removed on existing installations, except posts 2 through 8 of a BCT installation.
3. Guardrail post spacing for Types 1 through 4 shall be 6'-3" on centers.
4. Timber block shall be toe-nailed to post with a 16d galvanized nail to restrict block rotation.
5. For post and block details See Standard Plan "Beam Guardrail Posts and Blocks."
6. When Beam Guardrail Type 1, -- Foot Long Post, is specified in Contract, the post length shall be stamped with numbers 1 $\frac{1}{2}$ " MIN height and $\frac{1}{4}$ " deep at the location where the letter "H" is shown on the detail. After installation of long post, it shall be the Contractor's responsibility to ensure that the stamped numbers are still legible and $\frac{1}{4}$ " deep.
7. When Beam Guardrail Type 1, -- Foot Long Post, is specified, in the Contract, steel post lengths shall be increased 1'-0" for auger and backfill installation. The identification stamp of the long post shall remain as specified by the Contract.



EXPIRES MAY 3, 2000

BEAM GUARDRAIL (W BEAM) STANDARD PLAN C-1

SHEET 2 OF 2 SHEETS

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APPROVED FOR PUBLICATION

Clifford E. Mansfield
DEPUTY STATE DESIGN ENGINEER

7/31/98
DATE

